

FEI | Faith Engineering, Inc.

1000 Lomas Boulevard NW
Albuquerque, New Mexico 87102-1945
(505) 243-5494 • FAX (505) 243-5585
e-mail • faithinc@flash.net

November 15, 2000

Mr. Nolan Bennett
Environmental Health Scientist
Bernalillo County Environmental Health Department
600 Second St. NW, Suite 500
Albuquerque, NM 87102

Sent via E-Mail: nbennett@bernco.gov and US Mail

RE: Transmittal of 1st Quarterly Ground Water Sampling Results
305 Isleta SW, The Pit Stop Site; NMED/USTB Facility ID No. 24299001
Contract Control No. 980473

Dear Nolan:

Please find included herewith the results of the first quarter of ground water sampling and analysis for the subject site. This transmittal includes:

- a site map showing well locations with notated analytical results;
- summary tables with current and historic tabulation of ground water analytical results; and
- laboratory report of analyses.

As you are aware, Faith Engineering, Inc. and their subcontractor Tecumseh Professional Associates (FEI/TPA) are preparing a work plan for remedial design at this site.

During this first quarterly ground water sampling activity, the well suspected of being most highly contaminated was also analyzed for polynuclear aromatics (PNAs) by EPA Method 8270 SIMS. Monitor well MW-1 was analyzed and the following PNAs were detected: 1-methyl naphthalene (18.3 µg/l), 2-methyl naphthalene (33.0 µg/l), and naphthalene (40.4 µg/l). Results of additional ground water monitoring will be provided by 1/15/01.

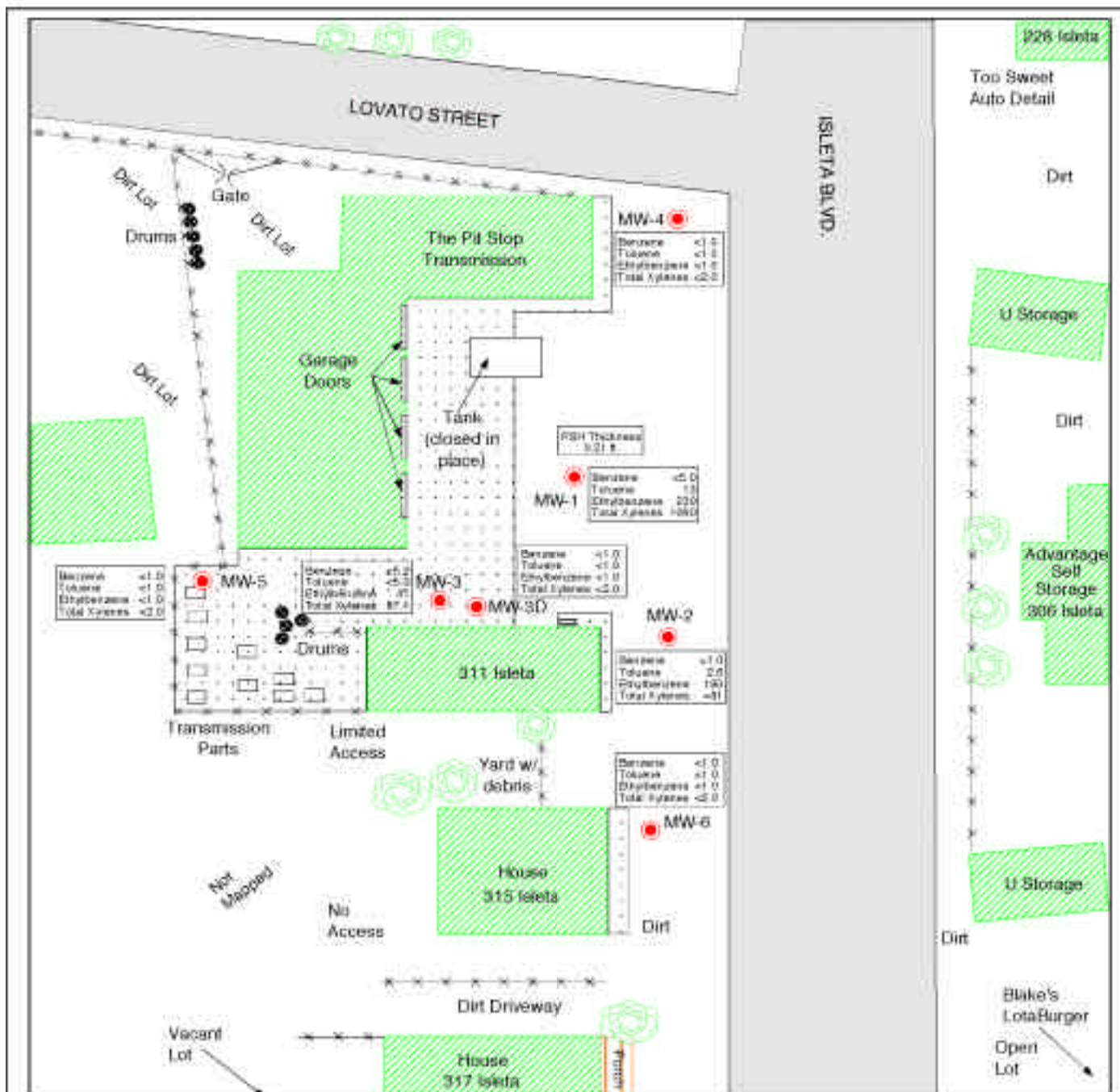
Please do not hesitate to contact the undersigned if you have any questions or comments regarding this matter.

Respectfully submitted,

FAITH ENGINEERING, INC.

Stuart E. Faith – President

cc. w/ encls. Mr. Tom Leck – NMED/USTB
Mr. Bill Brown - TPA



LEGEND

- Monitor Well Location
- Building
- Concrete
- Fence Line
- Trees/Vegetation

BTEX Concentration Levels and Plume

Benzene	<1.0
Toluene	<1.0
Ethylbenzene	<1.0
Total Xylenes	<2.0

0 15 30ft
Scale



Pit Stop Site

305 Isleta SW, Albuquerque, New Mexico

FEI Faith Engineering, Inc.
1000 Lomas Boulevard NW
Albuquerque, New Mexico 87102-1945
(505) 241-5804 • FAX: (505) 241-5805
e-mail: Faith@FEI.com

TECUMSEH
PROFESSIONAL ASSOCIATES, INC.

Subject: Site Map and BTEX Concentration Levels

Drawn by: KGF/WJB

Client: BCEHD

Date: November 2000

Figure: 1 Project: 99-00-1183

TABLE 1
Pit Stop 305 Isleta
00-00-1173-05 • NMED FACILITY # 24299001
CURRENT GROUND WATER ANALYSIS RESULTS

		ORGANICS									INORGANICS						INDICATORS							
LOCATION	DATE SAMPLED	Benzene	Toluene	Ethylbenzene	Total Xylenes	MTBE	EDB	EDC	TMB	NAPHTHALENE	IRON	PHOSPHATE	SULFIDE	ALKALINITY as CaCO3	DISS O2	NITRATE	pH	CONDUCTIVITY	TEMP					
		µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	ug/l	µg/l	ug/l				µg/l						mg/l	mg/l	mg/l	mg/l	mg/l
		10	750	750	620	100	0.1	10	30	SOLUBLE				TOTAL										
UNITS STANDARDS		< 5.0	13	230	1060	< 5.0	< 5.0	< 5.0	550	110	0.2	0.2	1.5	0.8	185	0.5	0.6	7.06	941	22.7				
MW - 1	9/14/00	< 1.0	2.6	190	< 81	< 1.0	< 1.0	< 1.0	51.6	80	0.2	0.2	2.0	3.0	270	0.5	1.0	6.72	1045	23.7				
MW - 2	9/14/00	< 1.0	< 1.0	31	67.1	< 1.0	< 1.0	< 1.0	< 2.0	23	0.2	0.2	3.0	0.1	195	0.5	0.8	7.28	1012	22.6				
MW - 3	9/14/00	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	0.1	0.2	1.5	0.0	195	0.5	1.0	7.13	909	21.5				
MW - 3D	9/14/00	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	0.1	0.3	4.0	0.0	175	1.0	1.0	6.71	796	22.7				
MW - 4	9/14/00	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	0.6	1.5	1.5	0.2	180	1.0	0.6	6.67	643	21.3				
MW - 5	9/13/00	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	0.2	0.6	2.0	0.0	220	0.5	1.0	7.02	1012	22.7				
MW - 6	9/14/00	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	*	*	*	*	*	*	*	*	*	*				
Rinsate	9/14/00	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	*	*	*	*	*	*	*	*	*	*				
Trip Blank	9/13/00	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	*	*	*	*	*	*	*	*	*	*				

Data checked _____ / _____

TABLE 2
Pit Stop 305 Isleta
00-00-1173-05 • NMED FACILITY # 24299001
HISTORY OF GROUND WATER TESTING

		ORGANICS									INORGANICS						INDICATORS			
LOCATION	DATE SAMPLED	BENZENE	TOLUENE	ETHYL BENZENE	TOTAL XYLENES	MTBE	EDB	EDC	TMB	NAPHTHALENE	IRON	PHOSPHATE	SULFIDE	ALKALINITY as CaCO3	DISS O2	NITRATE	pH	CONDUCTIVITY	TEMP	
UNITS STANDARDS		µg/l	µg/l	µg/l	µg/l	µg/l	µg/l	ug/l	µg/l	µg/l	µg/l		mg/l	mg/l	mg/l	mg/l	mg/l		µmhos/cm	°C
		10	750	750	620	100	0.1	10	30	SOLUBLE	TOTAL				FIELD					
MW - 1	3/2/99	Not Sampled - PSH sheen									*	*	*	*	*	*	*	*	*	*
	9/14/00	< 1.0	2.6	190	< 81	< 1.0	< 1.0	< 1.0	550	110	0.2	0.2	1.5	0.8	185	0.5	0.6	7.06	941	22.7
MW - 2	3/2/99	< 1.0	4	310	131	< 1.0	*	< 1.0	*	17.9	*	*	*	*	*	*	*	*	*	*
	9/14/00	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	51.6	80	0.2	0.2	2.0	3.0	270	0.5	1.0	6.72	1045	23.7
MW - 3	3/2/99	< 5.0	26	390	1570	< 5.0	< 0.01	< 5.0	*	43.8	*	*	*	*	*	*	*	*	*	*
	9/14/00	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	23	0.2	0.2	3.0	0.1	195	0.5	0.8	7.28	1012	22.6
MW - 3D	6/10/99	< 1.0	< 1.0	< 1.0	1.2	< 1.0	< 0.01	< 1.0	18.6	< 1.0	*	*	*	*	*	*	*	*	*	*
	9/14/00	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	0.1	0.2	1.5	0.0	195	0.5	1.0	7.13	909	21.5
MW - 4	3/2/99	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	*	< 1.0	*	< 0.1	*	*	*	*	*	*	*	*	*	*
	9/14/00	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	0.1	0.3	4.0	0.0	175	1.0	1.0	6.71	796	22.7
MW - 5	6/10/99	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.01	< 1.0	< 1.0	< 1.0	*	*	*	*	*	*	*	*	*	*
	9/13/00	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	0.6	1.5	1.5	0.2	180	1.0	0.6	6.67	643	21.3
MW - 6	6/10/99	< 1.0	< 1.0	< 1.0	< 1.0	< 1.0	< 0.01	< 1.0	< 1.0	1.0	*	*	*	*	*	*	*	*	*	*
	9/14/00	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	< 1.0	< 1.0	< 2.0	< 1.0	0.2	0.6	2.0	0.0	220	0.5	1.0	7.02	1012	22.7

* - Not Sampled/Not Tested

Bold - Above Action Limits

Data checked _____ / _____

TABLE 2
00-00-1173-01 • The Pit Stop • 305 Isleta Blvd. SW
NMED FACILITY #24299001
SUMMARY OF GROUND WATER ELEVATION MEASUREMENTS

WELL NUMBER	ELEVATION (feet above datum)	DATE	STATIC (feet BG)	WATER LEVEL (feet AD)	(+) = RISING (-) = FALLING
MW-1	4946.87	3/2/99	11.23	4935.64	
		9/3/99	11.05	4935.82	0.18
		9/14/00	11.41	4935.46	-0.36
MW-2	4946.98	3/2/99	11.41	4935.57	
		9/3/99	11.24	4935.74	0.17
		9/14/00	11.39	4935.59	-0.15
MW-3	4947.02	3/2/99	11.45	4935.57	
		9/3/99	11.24	4935.78	0.21
		9/14/00	11.42	4935.60	-0.18
MW-3D	4946.98	6/10/99	11.26	4935.72	
		9/3/99	11.21	4935.77	0.05
		9/14/00	11.38	4935.60	-0.17
MW-4	4946.82	3/2/99	11.11	4935.71	
		9/3/99	10.91	4935.91	0.20
		9/14/00	11.07	4935.75	-0.16
MW-5	4947.01	6/10/99	11.37	4935.64	
		9/3/99	11.25	4935.76	0.12
		9/14/00	11.46	4935.55	-0.21
MW-6	4947.01	6/10/99	12.20	4934.81	
		9/3/99	11.31	4935.70	0.89
		9/14/00	11.48	4935.53	-0.17

Data checked _____ / _____

Table 4
Pit Stop 305 Isleta
00-00-1173-05 • NMED Facility # 24299001
 Summary of Tasks Performed in the Field

DATE	FIELD TECH.	DESCRIPTION
2/10/99	BW	Drill MW-1, MW-2, MW-3 and MW-4.
2/11/99	BW	Take soil borings.
3/2/99	KGF	Sampling of MW-1, MW-2, MW-3, MW-4. Obtain GW levels.
5/25/99	BW	Take soil borings. Drill MW-3D.
6/1/99	BW	Drill MW-6.
6/10/99	KGF	Sampling of MW-3D, MW-5, MW-6.
8/6/99	BW	Obtain soil Physical characteristics.
9/3/99	KGF	Obtain all GW levels.
9/13/00 - 9/14/00	KGF, MB	Initial sampling round(1st Qtr)-all existing wells, site survey.

Data checked _____ / _____

APPENDIX 1

Sampling Protocol

Prior to any sampling, well development or purging, all monitor wells were sounded for depth to ground water. FEI used an electronic sounder with an accuracy of ± 0.01 /foot. Ground water elevations (from datum) were determined using survey data collected during the Hydrogeologic Investigation.

Prior to any sampling event, a minimum of three (3) well bore volumes were purged from each well using a Grundfos Sampling Pump. Samples were collected in HCl preserved VOAs and placed on ice in a container for delivery to Pinnacle Laboratories, in Albuquerque, New Mexico, for analyses. The ground water samples were analyzed for Benzene, Toluene, Ethylbenzene, and total Xylenes (BTEX), Naphthalene, Methyl-t-Butyl Ether (MTBE), TMB, Ethylene Dibromide (EDB) and Ethylene Dichloride (EDC) by EPA Method 8260 and for polynuclear aromatics (PNA) by EPA Method 8270 SIMS. Natural attenuation indicator parameters Iron, Phosphate, Sulfide, Alkalinity, pH, dissolved oxygen, conductivity, temperature and nitrate were analyzed and measured in the field using the appropriate field test kits and equipment. All EPA-approved sampling protocols were observed and a chain of custody was maintained on all samples.

APPENDIX 2

Field Notes

APPENDIX 3

Analytical Laboratory Reports